

Claims

1. Method for coding impulse responses of audio signals, wherein said impulse responses allow the reproduction of sound signals corresponding to a certain room characteristic, comprising:
 - generating an impulse response of a room for a sound source; and
 - inserting parameters representing said generated impulse response into multiple successive control parameter fields (15, 16, 17, 18); wherein a first control parameter field (15) contains information about the number and content of the following control parameter fields.
2. Method according to claim 1, wherein the sound signals are encoded using the MPEG 4 standard and the room impulse response is transmitted via the Structured Audio interface in the PROTO mechanism using multiple successive field updates for the params[128]-field.
3. Method according to claim 1 or 2, wherein a scalable transmission of the room impulse responses is enabled.
4. Method according to claim 3, wherein in a broadcast mode short versions of room impulse responses are frequently transmitted and a long sequence is less frequently transmitted.
5. Method according to claim 3, wherein in an interleaved mode a first part of the room impulse responses is frequently transmitted and the later part of the room impulse responses is less frequently transmitted.
6. Method for decoding impulse responses of audio signals, wherein said impulse responses allow the reproduction

of sound signals corresponding to a certain room characteristic, comprising:

separating parameters representing an impulse response from multiple successive control parameter fields, wherein a first control parameter field contains information about the number and content of the following control parameter fields;

storing the separated parameters in an additional memory of a node; and

10 using said stored parameters for the calculation of the room characteristic.

7. Method according to claim 6, wherein the sound signals are decoded using the MPEG 4 standard and the room impulse response is received via the Structured Audio interface in the PROTO mechanism using multiple successive field updates for the params[128]-field.

20 8. Method according to claim 6 or 7, wherein the room impulse responses are received following a scalable transmission of said room impulse responses.

25 9. Method according to claim 8, wherein in a broadcast mode short versions of room impulse responses are frequently received and a long sequence is less frequently received.

30 10. Method according to claim 8, wherein in an interleaved mode a first part of the room impulse responses is frequently received and the later part of the room impulse responses is less frequently received.

11. Apparatus for performing a method according to any of the preceding claims.